

CLAIMS

1. A weather-resistant synthetic wood comprising a body defining a core thereof and comprising a synthetic resin foam and an outer layer covering the body and comprising a synthetic resin that is unfoamed or foamed at a lower expansion rate than the resin foam for the body, the body and the outer layer being integrally bonded by coextrusion, wherein

the body contains a polystyrene- or polypropylene-based resin as the major component; and

the synthetic resin for the outer layer contains a weather-resistant synthetic resin as the major component and contains the major component resin of the body as a minor component in such an amount that the minor component contributes to the enhancement of the adhesion between the body and the outer layer without impairing weather resistance.

2. The weather-resistant synthetic wood according to Claim 1, wherein

the body contains polystyrene or a mixture of 100 parts by weight of polystyrene and 0 to 400 parts by weight of high-impact polystyrene as the major component; and

the outer layer, which contains the major component of the body as the minor component, contains an acrylonitrile-acrylic rubber-styrene copolymer and/or an acrylonitrile-

ethylene propylene rubber-styrene copolymer as the major component.

3. The weather-resistant synthetic wood according to Claim 2, wherein the content of the minor component in the outer layer is 5 to 80 parts by weight based on 100 parts by weight of the major component.

4. The weather-resistant synthetic wood according to Claim 2 or 3, wherein the body further contains at least one of an acrylonitrile-butadiene-styrene copolymer, an acrylonitrile-acrylic rubber-styrene copolymer, and an acrylonitrile-ethylene propylene rubber-styrene copolymer as a minor component in an amount of 5 to 50 parts by weight based on 100 parts by weight of the major component.

5. The weather-resistant synthetic wood according to any of Claims 2 to 4, wherein the outer layer has a foaming magnification of 1.1 to 1.2 times, contains wood flour as a minor component in an amount of 15 to 30 parts by weight based on 100 parts by weight of the material for the outer layer, and contains a wood color pigment to present woodiness.

6. The weather-resistant synthetic wood according to Claim 1, wherein

the body contains polypropylene as the major component and optionally contains an adhesion enhancer as a minor component; and

the outer layer, which contains the major component of the body, namely polypropylene, as the minor component, contains an acrylonitrile-acrylic rubber-styrene copolymer and/or an acrylonitrile-ethylene propylene rubber-styrene copolymer as the major component.

7. The weather-resistant synthetic wood according to Claim 6, wherein the body contains at least one of an acrylonitrile-butadiene-styrene copolymer, an acrylonitrile-acrylic rubber-styrene copolymer, and an acrylonitrile-ethylene propylene rubber-styrene copolymer as the minor component in an amount of 5 to 50 parts by weight based on 100 parts by weight of the major component, namely polypropylene, and further contains wood flour in an amount of 5 to 400 parts by weight based on 100 parts by weight of the major component, namely polypropylene.

8. The weather-resistant synthetic wood according to Claim 6 or 7, wherein the amount of wood flour added to the body is 80 to 200 parts by weight based on 100 parts by weight of the major component.

9. The weather-resistant synthetic wood according to any of Claims 6 to 8, wherein the content of the minor component, namely polypropylene, in the outer layer is 3 to 10 parts by weight based on 100 parts by weight of the major component.

10. The weather-resistant synthetic wood according to Claims 6 to 8, wherein the outer layer has a foaming

magnification of 1.1 to 1.2 times, contains wood flour as a minor component in an amount of 5 to 30 parts by weight based on 100 parts by weight of the material for the outer layer, and contains a wood color pigment to present woodiness.

11. The weather-resistant synthetic wood according to Claim 2 or 6, wherein the body is a solid-core foam having a foaming magnification of 1.2 to 3.0 times and formed in a predetermined elongated cross-sectional shape.

12. The weather-resistant synthetic wood according to Claim 11, wherein fiberglass wires containing fiberglass as the major component are embedded in the body in the longitudinal direction thereof at substantially diametrically opposed positions over the height and width of a transverse cross section of the body.

13. The weather-resistant synthetic wood according to Claim 12, wherein the fiberglass wires are prepared by impregnating a fiberglass strand with the major component resin of the body.

14. The weather-resistant synthetic wood according to Claim 11, wherein a reinforcement comprising a metal such as aluminum or iron is embedded in the body so as to extend in the longitudinal direction thereof.